

# Jefferson Lab Experiments, PACs 4-26, Grouped By Category

## *Few Body Nuclear Properties: Approved*

	<u>Experiment</u>	<u>Hall</u>	<u>Title</u>	<u>Spokesperson</u>	<u>Institutions</u>	<u>Beam days</u>	<u>Rating</u>
★	E-89-012	C	Two-Body Photodisintegration of the Deuteron at Forward Angles and Photon Energies between 1.5 and 4.0 GeV	R. Holt	ANL	10	A-
★	E-89-019	A	Measurement of Proton Polarization in the $d(\chi, \pi)n$ Reaction	R. Gilman* R. Holt Z. E. Meziani	Rutgers U ANL Temple U	18	B+
★	E-89-028	A	Polarization Transfer Measurements in the $D(e, e'p)n$ Reaction	J. Finn* P. Ulmer	W&M ODU	8	B-
★	E-89-044	A	Selected Studies of the $^3\text{He}$ and $^4\text{He}$ Nuclei through Electrodisintegration at High Momentum Transfer	M. Epstein A. Saha* E. Voutier	California SU JLab ISN	30	B+
☆	E-91-003	C	A Study of Longitudinal Charged Pion Electroproduction in $D_2$ , $^3\text{He}$ , and $^4\text{He}$	H. Jackson	ANL	21	B+
★	E-91-026	A	Measurement of the Electric and Magnetic Elastic Structure Functions of the Deuteron at Large Momentum Transfers	J. Gomez G. Petratos*	JLab Kent State U	24	B+
★	E-93-017	B	Study of $\gamma d \rightarrow pn$ and $\gamma d \rightarrow p\Delta^0$ Reactions for Small Momentum Transfers	E. De Sanctis P. Rossi*	INFN INFN	23	B+
☆	E-93-044	B	Photoreactions on $^3\text{He}$	G. Audit B. Berman* P. Corvisiero	SACLAY GWU INFN	25	B
★	E-93-049	A	Polarization Transfer in the Reaction $^4\text{He}(e, e'p)^3\text{H}$ in the Quasi-elastic Scattering Region	R. Ent P. Ulmer	JLab ODU	12	B+
★/	E-94-004	A	In-Plane Separations and High Momentum Structure in $d(e, e'p)n$	M. Jones P. Ulmer*	JLab ODU	29	B
★	E-94-018	C	Measurement of the Deuteron Tensor Polarization at Large Momentum Transfers in $D(e, e'd)$ Scattering	E. Beise S. Kox*	U of Maryland ISN	47	A-
★	E-94-019	B	Measuring Nuclear Transparency in Double Rescattering Processes	K. Egiyan K. Griffioen* M. Strikman	Yerevan W&M Penn State	16	B+
★	E-94-102	B	Electron Scattering from a High Momentum Nucleon in Deuterium	K. Griffioen S. Kuhn*	W&M ODU	16	B+

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★ E-94-104	A	The Fundamental $\gamma n \rightarrow \pi^- p$ Process in $^2\text{D}$ , $^4\text{He}$ , and $^{12}\text{C}$ in the 1.2 - 6.0 GeV Region	H. Gao* R. Holt	Duke U ANL	18	B+
★ E-95-001	A	Precise measurements of the Inclusive Spin-dependent Quasi-elastic Transverse Asymmetry $A_T$ from $^2\text{H}(e,e')$ at low $Q^2$	H. Gao* J. O. Hansen	Duke U JLab	15	B
★ E-96-003	C	Two-Body Photodisintegration of the Deuteron at High Energy	R. Holt	ANL	18	A-
★ E-97-001	B	Electroproduction of the $pp\pi^-$ System off the Deuteron Beyond the Quasifree Region	N. Pivnyuk* L. VOROBYEV	ITEP ITEP	16	B-
★ E-99-008	A	Large Angle Two-Body Photodisintegration of the Deuteron at High Energy	R. Gilman* R. Holt Z. E. Meziani	Rutgers U ANL Temple U		B
★ E-00-007	A	Proton Polarization Angular Distribution in Deuteron Photo-Disintegration	R. Gilman* R. Holt Z. E. Meziani	Rutgers U ANL Temple U	7	A-
★ E-01-020	A	PR-01-007 and PR-01-008 Combined	W. Boeglin* M. Jones A. Klein J. Mitchell P. Ulmer* E. Voutier	FIU U of Maryland LANL JLab ODU ISN	30	A-
E-01-107	C	Measurement of Pion Transparency in Nuclei	D. Dutta R. Ent K. Garrow	Duke U JLab TRIUMF	14	A-
E-01-108	A	Detailed Study of the $^4\text{He}$ Through Response Function Separations at High Momentum Transfers	K. Aniol S. Gilad D. Higinbotham A. Saha*	California SU MIT JLab JLab	20	B+
E-02-004	A	$A(Q)$ at Low $Q$ in $ed$ Elastic Scattering	R. Gilman* X. Jiang K. McCormick	Rutgers U Rutgers U Rutgers U	5	B+
E-02-010	A	The $\gamma + n \rightarrow \pi^- p$ Process from $^2\text{H}$ and $^{12}\text{C}$ and the $\gamma + p \rightarrow \pi^+ n$ Reaction	D. Dutta H. Gao R. Holt	Duke U Duke U ANL	8	B+

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E-02-108	A	Measurement of $A_X$ and $A_Z$ Asymmetries in the Quasi-Elastic $^3$ Reaction	D. Higinbotham B. Norum S. Sirca Z. Zhou	JLab U of Virginia MIT MIT	15	B+
E-03-101	A	Hard Photodisintegration of a Proton Pair	R. Gilman* E. Piasetzky	Rutgers U U of Tel Aviv	13	B+
E-03-104	A	Probing the Limits of the Standard Model of Nuclear Physics with the $^4\text{He}(e,e'p)^3\text{H}$ Reaction	R. Ent R. Ransome S. Strauch* P. Ulmer	JLab Rutgers U GWU ODU	18	B+
E-03-105	B	Pion Photoproduction from a Polarized Target	N. Benmouna G. O'Rielly I. Strakovski S. Strauch*	GWU U Mass GWU GWU	18	B+
E-04-018	A	Elastic Electron Scattering Off $^3\text{He}$ and $^4\text{He}$ at large momentum transfers	J. Gomez* A. KATRAMATOU* G. Petratos*	JLab Kent State U Kent State U	36	A-

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★/ E-89-037	B	Electroproduction of the $P_{33}(1232)$ Resonance	R. Minehart	U of Virginia	106	B+
★/ E-89-038	B	Measurements of $p(e,e'\pi^+)n$ , $p(e,e'p)\pi^0$ , and $n(e,e'\pi^-)p$ in the Second Resonance Region	M. Gai R. Minehart* R. Whitney	U of Conn U of Virginia JLab	80	B+
★/ E-89-039	B	Amplitudes for the $S_{11}(1535)$ and $P_{11}(1710)$ Resonances from an $ep \rightarrow e'pn$ experiment	S. Dytman* K. Giovanetti	U of Pittsburgh JMU	48	B+
★/ E-89-042	B	Measurement of the Electron Asymmetry in $p(e,e'p)\pi^0$ and $p(e,e'\pi^+)$ in the Mass Region of the $P_{33}(1232)$	R. Minehart	U of Virginia	80	A-
★/ E-91-002	B	The study of Excited Baryons at High Momentum Transfer with the CLAS Spectrometer	P. Stoler* M. Taiuti	RPI INFN	32	B
★/ E-91-008	B	Photoproduction of $\eta$ and $\eta'$ Mesons	B. Ritchie	Arizona SU	65	A-
★ E-91-011	A	Investigation of the $N \rightarrow \Delta$ Transition via Polarization Observables in Hall A (previously titled- High-Precision Separation of Polarized Structure Function	S. Frullani J. Kelly A. Sarty*	INFN U of Maryland St. Marys	45	A-
★/ E-91-024	B	Search for "Missing" Resonances in the Electroproduction of Omega Mesons	H. Funsten* D. Manley	W&M Kent State U	32	B+
★/ E-93-006	B	Two Pion Decay of Electroproduced Baryon Resonances	M. Ripani	INFN	80	B+
★/ E-93-012	B	Electroproduction of Light Quark Mesons	M. Kossov	ITEP	42	B+
★ E-93-031	B	Photoproduction of Vector Mesons at High $t$	M. Anghinolfi J. Laget C. Marchand*	INFN SACLAY SACLAY	17	A-
★/ E-93-033	B	A Search for Missing Baryons Formed in $\gamma p \rightarrow p\pi^+\pi^-$ Using the CLAS at CEBAF	J. Napolitano* D. Weygand	RPI JLab	65	B+
★ E-93-036	B	Measurement of Single Pion Electroproduction from the Proton with Polarized Beam and Polarized Target Using CLAS	R. Chasteler R. Minehart H. Weller*	Duke U U of Virginia Duke U	42	B+
★/ E-94-005	B	Determination of the $N\Delta$ Axial Vector Transition Form Factor $G_A^{N\Delta}$ from the $ep \rightarrow e'\Delta^{++}\pi^-$	L. Elouadrhiri* D. Heddle	JLab CNU	53	B+
★ E-94-008	B	Photoproduction of $\eta$ and $\eta'$ Mesons from Deuterium	B. Ritchie	Arizona SU	23	B-

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★ E-94-012	A	Measurement of Photoproton Polarization in the $H(\gamma, p)\pi^0$ Reaction	R. Gilman* R. Holt	Rutgers U ANL	8	B+
★ E-94-014	C	The $\Delta(1232)$ Form Factor at High Momentum Transfer	P. Stoler	RPI	10	B
★/ E-94-015	B	Study of the Axial Anomaly using the $\gamma\pi^+\rightarrow\pi^+\pi^0$ Reaction Near Threshold	R. Miskimen* K. Wang A. Yegneswaran	U Mass U of Virginia JLab	65	A-
★ E-94-016	B	A Measurement of Rare Radiative Decays of the $\phi$ Meson	A. Dzierba* J. Napolitano	Indiana U RPI	30	A
★/ E-94-103	B	The Photoproduction of Pions	W. Briscoe J. Ficenec* D. Jenkins	GWU VPI VPI	65	B
☆ E-94-109	B	Photoproduction of the Rho Meson from the Proton with Linearly Polarized Photons	P. Cole* K. Livingston	ISU Glasgow U	20	A-
★ E-94-110	C	Measurement of $R = \sigma_L/\sigma_T$ in the Nucleon Resonance Region	C. Keppel	Hampton U	9	B+
★ E-99-005	B	Meson Spectroscopy in Few-Body Decays	G. Adams C. Salgado* D. Weygand	RPI NSU JLab	10	B+
☆ E-99-013	B	Photoproduction of omega mesons off protons with linearly polarized photons	P. Cole F. Klein*	ISU CUA	10	B+
★/ E-99-105	B	Deeply Virtual Electroproduction of Vector Mesons	M. Garcon* M. Guidal E. Smith*	SACLAY IPN ORSAY JLab	30	B+
★ E-99-107	B	$N^*$ Excitations at High $Q^2$ in the $p\pi$ , $p$ , and $n\pi^+$ Channels	R. Minehart P. Stoler* M. Taiuti	U of Virginia RPI INFN	30	A-
★ E-99-108	B	$N^*$ Excitations at High $Q^2$ in the Two-Pion Channel	M. Ripani	INFN	30	B+
★ E-99-117	A	Precision Measurement of the Neutron Asymmetry $A_1^n$ at Large $x$ using CEBAF at 6 GeV	J. P. Chen Z. E. Meziani* P. Souder	JLab Temple U Syracuse U	21	B+

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★ E-99-118	C	Measurement of the Nuclear Dependence of $R=\sigma_L/\sigma_T$ at Low $Q^2$	A. Bruell J. Dunne C. Keppel*	JLab MSU Hampton U	16	B+
★ E-00-002	C	$F_2^N$ at Low $Q^2$	C. Keppel M. I. Niculescu*	Hampton U GWU	8	A-
★ E-00-116	C	Update E97-010: Measurement of Hydrogen and Deuterium Inclusive Resonance Cross Sections at Intermediate $Q^2$ for Parton-Hadron Duality Studies	C. Keppel	Hampton U	3	B+
★ E-01-002	C	Update to E97-101: Baryon Resonance Electroproduction at High Momentum Transfer	P. Bosted V. Frolov M. Jones V. Koubarovski P. Stoler*	U Mass RPI U of Maryland RPI RPI	25	B+
★ E-01-006	C	Update to 96-002 - Precision Measurement of the Nucleon Spin Structure Functions in the Region of the Nucleon Resonances	O. Rondon-Aramayo	U of Virginia	14	B+
★ E-01-012	A	Measurement of Neutron ( $^3\text{He}$ ) Spin Structure Functions in the Resonance Region	J. P. Chen S. Choi N. Liyanage*	JLab Temple U U of Virginia	18	B+
★ E-01-017	B	Extension to E99-005: Meson Spectroscopy in Few-Body Decays	G. Adams C. Salgado* D. Weygand	RPI NSU JLab	6	A-
★ E-01-112	B	Photoproduction of Vector Mesons off Nuclei - Update to 94-002	C. Djalali M. Kossov D. Weygand*	USCA ITEP JLab	18	A-
E-02-012	B	Coherent Vector Meson Production off the Deuteron	F. Klein L. Kramer*	CUA FIU	50	A-
E-02-103	B	A Precision Measurement of the Neutral Pion Lifetime via the Primakoff Effect	D. Dale S. Danagoulian A. Gasparian* R. Miskimen	U of Kentucky NCAT State U NCAT State U U Mass	22	A
E-02-112	B	Search for Missing Nucleon Resonances in the Photoproduction of Hyperons Using A Polarized Photon Beam and A Polarized Target	P. Eugenio F. Klein* L. Todor	FSU CUA CMU	20	A-

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E-03-004	A	Measurement of Single Target-Spin Asymmetry in Semi-Inclusive Pion Electroproduction on a Transversely Polarized $^3\text{He}$ Target	J. P. Chen X. Jiang* J. c. Peng	JLab Rutgers U U of Illinois	24	B+
E-03-006	B	The GDH Sum Rule with nearly real photons and the proton g1 structure function at low momentum transfer	M. Battaglieri R. De Vita M. Ripani*	INFN INFN INFN	20	A
E-03-008	C	Sub-threshold J/Psi Photoproduction	P. Bosted* J. Dunne	U Mass MSU	7	B+
E-03-012	B	The Structure of the Free Neutron Via Spectator Tagging	H. Fenker C. Keppel S. Kuhn* W. Melnitchouk	JLab Hampton U ODU JLab	25	A-
E-04-005	B	Search for New Forms of Hadronic Matter in Photoproduction	P. Eugenio* C. Salgado D. Weygand	FSU NSU JLab	42	A
E-04-007	A	Precision Measurement of the Electroproduction of $\pi^0$ Near Threshold: A Test of Chiral QCD Dynamics	J. Annand D. Higinbotham R. Lindgren V. Nelyubin B. Norum	Glasgow U JLab U of Virginia U of Virginia U of Virginia	16	B+
★ E-04-012	A	High Resolution study of the 1540 exotic state	P. Reimer B. Wojtsekhowski	ANL JLab	7	A-
E-04-101	C	Measurement of the Parity Violating Asymmetry in the N to Delta Transition	T. Forest K. Johnston N. Simicevic* S. Wells*	LTU LTU LTU LTU		B+

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E-04-102	B	Helicity Structure of Pion Photoproduction	D. Crabb H. Crannell D. Day R. Hakobyan M. Khandaker F. Klein B. Norum J. O'Brien D. Sober* I. Strakovski S. Strauch	U of Virginia CUA U of Virginia CUA JLab CUA U of Virginia CUA GWU GWU	9	B+
E-04-113	C	Semi-Inclusive Spin Asymmetries on the Nucleon Experiment	P. Bosted D. Day X. Jiang M. Jones	U Mass U of Virginia Rutgers U U of Maryland	25	A-

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★ E-91-023	B	Measurement of Polarized Structure Functions in Inelastic Electron Proton Scattering using the CEBAF Large Acceptance Spectrometer	D. Crabb R. Minehart	U of Virginia U of Virginia	42	A
★ E-93-009	B	The Polarized Structure Function $G_{1n}$ and the $Q^2$ Dependence of the Gerasimov-Drell-Hearn Sum Rule for the Neutron	G. Dodge S. Kuhn* M. Taiuti	ODU ODU INFN	40	A
★ E-93-018	C	Longitudinal/Transverse Cross Section Separation in $p(e,e'K^+)\Lambda$ ( $\Sigma$ ) for $0.5 < Q^2 < 2.0$ ( $\text{GeV}/c$ ) <sup>2</sup> , $W > 1.7$ GeV and $t_{\text{lim}} > .1$ ( $\text{GeV}/c$ ) <sup>2</sup>	O. Baker	JLab	15	B+
★ E-93-021	C	The Charged Pion Form Factor	R. Whitney	JLab	9	B+
★ E-93-026	C	The Charge Form Factor of the Neutron	D. Day	U of Virginia	60	A
★ E-93-027	A	Electric Form Factor of the Proton by Recoil Polarization	C. Perdrisat* V. Punjabi	W&M NSU	16	B+
★ E-93-038	C	The Electric and Magnetic Form Factors of the Neutron From the $d(e,e'n)p$ Reaction based on PR-89-005 [originally two proposals PR-93-038(electric) and -039(magnetic)]	B. Anderson S. Kowalski R. Madey*	Kent State U MIT Hampton U	60	A
★ E-93-050	A	Nucleon Structure Study By Virtual Compton Scattering	P. Bertin P. Guichon C. Hyde-Wright	UCF SACLAY ODU	10	A-
★ E-94-010	A	Measurement of the Neutron ( $^3\text{He}$ ) Spin Structure Function at Low $Q^2$	G. Cates J. P. Chen Z. E. Meziani*	U of Virginia JLab Temple U	31	A-
★ E-94-017	B	The Neutron Magnetic Form Factor from Precision Measurements of the Ratio of Quasielastic Electron-Neutron to Electron-Proton Scattering in Deuterium	W. Brooks* M. Vineyard	JLab Union Col	15	B+
★ E-97-103	A	Search for Higher Twist Effects in the Neutron Spin Structure Function $g_2^n(x, Q^2)$	T. Averett W. Korsch*	W&M U of Kentucky	16	B+
★ E-97-110	A	The GDH Rule and the Spin Structure of $^3\text{He}$ and the Neutron Using Nearly Real Photons	J. P. Chen* A. Deur F. Garibaldi	JLab JLab INFN	18	A-
★ E-99-007	A	Measurement of $G_E^p/G_M^p$ to $Q^2 = 5.6$ $\text{GeV}^2$ by the Recoil Polarization Method	E. Brash M. Jones C. Perdrisat* V. Punjabi	U of Regina JLab W&M NSU	28	B+

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★ E-99-114	A	Exclusive Compton Scattering on the Proton	C. Hyde-Wright A. Nathan B. Wojtsekhowski*	ODU U of Illinois JLab	18	A-
☆ E-00-108	C	Duality in Meson Electroproduction	R. Ent* H. Mkrтчhyan G. Niculescu	JLab Yerevan U of Virginia	20	B+
E-00-110	A	Deeply Virtual Compton Scattering at 6 GeV	P. Bertin C. Hyde-Wright R. Ransome F. Sabatie*	UCF ODU Rutgers U SACLAY	20	A-
★ E-01-001	A	New Measurement of ( $G_E/G_M$ ) for the Proton	J. Arrington* R. Segel*	ANL Northwestern U	10	A-
★ E-01-004	C	Extension to E93-021: The Charged Pion Form Factor	H. Blok* G. Huber*	Vrije U U of Regina	14	A-
E-01-109	C	Measurement of $G_p/G_m$ to $Q^2=9 \text{ GeV}^2$ via Recoil Polarization	E. Brash C. Perdrisat* V. Punjabi	U of Regina W&M NSU	40	A
E-01-113	B	Deeply Virtual Compton Scattering with CLAS at 6 GeV	L. Elouadrhiri M. Garcon	JLab SACLAY	60	A
E-02-013	A	Measurement of the Neutron Electric Form Factor $G_E$ at High $Q^2$	G. Cates K. McCormick B. Wojtsekhowski*	U of Virginia Rutgers U JLab	32	A
E-02-020	C	The Q(Weak) Experiment: A Search for Physics at the TeV Scale Via a Measurement of the Proton's Weak Charge	J. Bowman R. Carlini* J. Finn S. Kowalski S. Page	LANL JLab W&M MIT U Manitoba	23	A
E-02-109	C	Measurement of $R=\sigma_L/\sigma_T$ on Deuterium in the Nucleon Resonance Region	M. Christy* C. Keppel	Hampton U Hampton U	13	B+
E-03-003	A	Polarization transfer in Wide Angle Compton Scattering	A. Nathan B. Wojtsekhowski*	U of Illinois JLab	7	B+

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E-03-106	A	Deeply Virtual Compton Scattering on the Neutron	P. Bertin C. Hyde-Wright F. Sabatie* E. Voutier	UCF ODU SACLAY ISN	13	A-
E-04-019	C	Measurement of the Two-Photon Exchange Contribution in ep Elastic Scattering Using Recoil Polarization	R. Gilman L. Pentchev C. Perdrisat R. Suleiman*	Rutgers U W&M W&M MIT	18	A-
E-04-108	C	Measurement of via recoil polarization	E. Brash M. Jones C. Perdrisat V. Punjabi	U of Regina U of Maryland W&M NSU	40	A
E-04-110	C,	The Neutron Electric Form Factor at from the Reaction via Recoil Polarimetry	B. Anderson* J. Kelly* S. Kowalski* R. Madey A. Semenov*	Kent State U U of Maryland MIT Hampton U Kent State U	25	A-
E-04-116	B	Beyond the Born Approximation: A Precise Comparison of Positron-Proton and Electron-Proton Elastic Scattering in CLAS	A. Afanasev J. Arrington W. Brooks* K. Joo L. Weinstein	JLab ANL JLab U of Conn ODU	5	A-

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# Jefferson Lab Experiments, PACs 4-26, Grouped By Category

## *Properties of Nuclei: Approved*

<u>Experiment</u>	<u>Hall</u>	<u>Title</u>	<u>Spokesperson</u>	<u>Institutions</u>	<u>Beam days</u>	<u>Rating</u>
★/ E-89-003	A	Study of the Quasielastic (e,e'p) reaction in $^{16}\text{O}$ at High Recoil Momentum	W. Bertozzi K. Fissum A. Saha* L. Weinstein	MIT U of Lund JLab ODU	20	B-
★ E-89-008	C	Inclusive Scattering for Nuclei at $x>1$ and High $Q^2$	D. Day B. Filippone*	U of Virginia CIT	8	B
★ E-89-009	C	Investigation of the Spin Dependence of the $\Lambda\text{N}$ Effective Interaction in the P Shell	R. Chrien E. Hungerford L. Tang*	BNL U of Houston Hampton U	25	B+
★ E-89-015	B	Study of Coincidence Reactions in the Dip and Delta-Resonance Regions Resubmitted as PR-91-009	H. Baghaei	U of Texas	33	B
★ E-89-017	B	Electroexcitation of the $\Delta(1232)$ in Nuclei. Resubmitted as PR-91-009	R. Sealock	U of Virginia	33	B
★ E-89-027	B	Coincidence Reaction Studies with the CLAS	W. Bertozzi W. Boeglin L. Weinstein*	MIT FIU ODU	33	B+
★ E-89-031	B	Study of Multi-Nucleon Knockout With the CEBAF Large Acceptance Spectrometer Resubmitted as PR-91-009	F. Hersman J. Lightbody R. Miskimen*	U of NH NSF U Mass	33	B+
★ E-89-032	B	Study of the Local Properties of Nuclear Matter in Electron-Nucleus and Photon-Nucleus Interactions with Backward Particle Production Using the CLAS Detector $\rightarrow$ PR-91-009	A. Stavinskiy	ITEP	33	B-
★/ E-89-033	A	Measurement of Recoil Polarization in the $^{16}\text{O}$ (e,e'p) Reaction with 2.4 GeV Electrons	C. Chang C. Glashauser* P. Rutt	U of Maryland Rutgers U Rutgers U	20	B-
★ E-89-036	B	Study of Short-Range Properties of Nuclear Matter in Electron-Nucleus and Photon-Nucleus Interactions with Backward Particle Production using the CLAS Detector resub as PR-91-009	K. Egiyan	Yerevan	33	C+
★ E-91-013	C	The Energy Dependence of Nucleon Propagation in Nuclei as Measured in the (e,e'p) Reaction	D. Geesaman	ANL	24	B-
★ E-93-008	B	Inclusive $\eta$ Photoproduction in Nuclei	M. Vineyard	Union Col	23	B

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★ E-93-019	B	Photoabsorption and Photofission of Nuclei	B. Berman* N. Bianchi V. Muccifora	GWU INFN INFN	3	B-
☆ E-94-107	A	High Resolution Hypernuclear 1p shell Spectroscopy	S. Frullani F. Garibaldi* J. LeRose P. Markowitz T. Saito	INFN INFN JLab FIU Tohoku U	24	B+
★ E-94-139	C	Measurement of the Nuclear Dependence and Momentum Transfer Dependence of Quasielastic (e,e'p) Scattering at Large Momentum Transfer	R. Ent R. Milner*	JLab MIT	17	B-
★ E-97-006	C	Correlated Spectral Function and (e,e'p) Reaction Mechanism	I. Sick	U of Basel	15	A-
★ E-97-111	A	Systematic Probe of Short-Range Correlations via the Reaction $^4\text{He}(e,e'p)^3\text{H}$	J. Mitchell J. Templon	JLab NIKHEF	12	B+
★ E-98-104	B	Measurement of the polarized electron beam asymmetry on exclusive reactions in nuclei with CLAS	F. Hersman* M. Holtrop	U of NH U of NH	35	N/
E-00-101	C	A Precise Measurement of the Nuclear Dependence of Structure Functions in Light Nuclei	J. Arrington	ANL	12	B+
★ E-00-102	A	Testing the limits of the Single Particle Model in $^{16}\text{O}(e\text{ ep})$ : An update to E89-003	W. Bertozzi* K. Fissum* A. Saha* L. Weinstein*	MIT U of Lund JLab ODU	20	A-
E-01-011	C	Spectroscopic Study of Lambda Hypernuclei Up To Medium-Heavy Mass Region Through the (e,e'k+) Reaction	O. Hashimoto* S. Nakamura J. Reinhold L. Tang	Tohoku U Tohoku U FIU Hampton U	19	A-
E-01-015	A	Proposal 97-106 (update) Studying the Internal Small-Distance Structure of Nuclei via the Triple Coincidence (e,e'p+N) Measurement	W. Bertozzi E. Piasetzky J. Watson S. Wood*	MIT U of Tel Aviv Kent State U JLab	23	B+
E-02-017	C	Status of the $\Lambda\text{S}=1$ Hadronic Weak Interaction Program (update to 99-003)	A. Margaryan L. Tang*	Yerevan Hampton U	7	B+

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E-02-019	C	Inclusive Scattering from Nuclei at $x > 1$ and High Q <sup>2</sup> with a 6 GeV Beam	J. Arrington D. Day B. Filippone A. Lung*	ANL U of Virginia CIT JLab	28	A-
☆ E-02-104	B	Quark Propagation Through Cold QCD Matter	W. Brooks	JLab	20	B+
☆ E-02-110	B	Q <sup>2</sup> Dependence of Nuclear Transparency for Incoherent $\rho^0$ electroproduction	K. Hafidi* M. Holtrop B. Mustapha	ANL U of NH ANL	24	B+
E-03-103	C	A Precise Measurement of the Nuclear Dependence of Structure Functions in Light Nuclei	J. Arrington	ANL	10	B+
E-04-001	C	Measurements of F <sub>2</sub> and R on Nuclear Targets in Resonance Region	A. Bodek C. Keppel	U of Rochester Hampton U	5	B+
E-04-002	A	Hadronization in Nuclei by Deep Inelastic Electron Scattering	J. P. Chen B. Norum K. Wang	JLab U of Virginia U of Virginia	15	B+
E-04-107	A	Detailed Study of 4He Nuclei through Response Function Separations at High Momentum transfers	K. Aniol S. Gilad D. Higinbotham A. Saha	California SU MIT JLab JLab	20	B+

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# Jefferson Lab Experiments, PACs 4-26, Grouped By Category

## Strange Quarks: Approved

<u>Experiment</u>	<u>Hall</u>	<u>Title</u>	<u>Spokesperson</u>	<u>Institutions</u>	<u>Beam days</u>	<u>Rating</u>
★/	E-89-004	B Electromagnetic Production of Hyperons	R. Schumacher	CMU	15	B+
★/	E-89-024	B Radiative Decays of the Low-Lying Hyperons With PR-89-004	G. Mutchler	Rice U	65	B+
★/	E-89-043	B Measurements of the Electroproduction of the $\Lambda$ (gnd), $\Lambda^*(1520)$ and $f_0(975)$ via the $K^+ K^- p$ and $K^+ \pi^- p$ Final States	L. Dennis H. Funsten*	FSU W&M	48	A-
★	E-91-010	A Parity Violation in Elastic Scattering From the Proton and $^4\text{He}$	J. Finn P. Souder*	W&M Syracuse U	42	A
☆	E-91-014	B Quasi-Free Strangeness Production in Nuclei	C. Hyde-Wright	ODU	25	B-
★	E-91-016	C Electroproduction of Kaons and Light Hypernuclei	J. Reinhold* B. Zeidman	FIU ANL	21	A-
☆	E-93-022	B Measurement of the Polarization of the $\phi(1020)$ in Electroproduction	H. Funsten P. Rubin E. Smith*	W&M U of Richmond JLab	15	B+
★/	E-93-030	B Measurement of the Structure Functions for Kaon Electroproduction	K. Hicks	Ohio U	50	B+
★/	E-95-003	B Measurement of Kzero Electroproduction	K. Dhuga* R. Magahiz R. Schumacher	GWU CMU CMU	80	B+
★	E-98-108	A Electroproduction of Kaons up to $Q^2=3$ (GeV/c) $^2$	O. Baker C. Chang S. Frullani M. Iodice P. Markowitz*	JLab U of Maryland INFN INFN FIU	21	B+
☆	E-98-109	B Photoproduction of phi Mesons with Linearly Polarized Photons	P. Cole J. Mueller D. Tedeschi*	ISU U of Pittsburgh USC	13	A-
★/	E-99-006	B Polarization observables in the $^1\text{H} (e,e'K^+)\Lambda^0$ Reaction	D. Carman* K. Joo L. Kramer B. Raue	Ohio U U of Conn FIU FIU		B
	E-99-115	A Constraining the Nucleon Strangeness Radius in Parity Violating Electron Scattering	G. Cates* K. Kumar* D. Lhuillier	U of Virginia U Mass SACLAY	30	A

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# Jefferson Lab Experiments, PACs 4-26, Grouped By Category

## *Strange Quarks: Approved*

<u>Experiment</u>	<u>Hall</u>	<u>Title</u>	<u>Spokesperson</u>	<u>Institutions</u>	<u>Beam days</u>	<u>Rating</u>
★ E-00-006	C	G <sup>0</sup> Experiment: Forward Angle Measurements	D. Beck	U of Illinois	70	A
★ E-00-112	B	Exclusive Kaon Electroproduction in Hall B at 6 GeV	D. Carman* K. Joo G. Niculescu B. Raue	Ohio U U of Conn U of Virginia FIU	30	B
☆ E-00-114	A	Parity Violation from <sup>4</sup> He at Low Q <sup>2</sup> : A Clean Measurement of ρ <sub>s</sub>	D. Armstrong	W&M	30	A
★ E-03-113	B	Investigation of Exotic Baryons States in Photoproduction Reactions with CLAS	K. Hicks	Ohio U	30	A
E-04-010	B	Search for Exotic Cascades with CLAS Using an Untagged Virtual Photon Beam	R. Gothe M. Holtrop E. Smith	USCA U of NH JLab	20	A
E-04-017	B	Study of Pentaquark States in Photoproduction off Protons	M. Battaglieri V. Kubarovsky J. Price D. Weygand*	INFN RPI U of California JLab		A-
E-04-021	B	Spectroscopy of Exotic Baryons with CLAS: Search for Ground and Excited States	M. Battaglieri* R. De Vita V. Kubarovsky D. Weygand	INFN INFN RPI JLab	25	A
E-04-115	C	G0 Backward Angle Measurement	D. Armstrong* D. Beck C. Davis B. Holstein W. Korsch H. Mkrtchyan M. Ramsey-Musolf S. Wells* S. Williamson	W&M U of Illinois TRIUMF U Mass U of Kentucky Yerevan CIT LTU U of Illinois	70	A

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# Jefferson Lab Experiments, PACs 4-26, Grouped By Category

## *Conditionally Approved*

<u>Experiment</u>	<u>Hall</u>	<u>Title</u>	<u>Spokesperson</u>	<u>Institutions</u>	<u>Beam days</u>	<u>Rating</u>
E-01-104	B	Helicity Structure of Pion Photoproduction - Update of Experiment 91-015	D. Crabb M. Khandaker D. Sober*	U of Virginia JLab CUA	22	B+
E-01-115	C	Measurement of the Parity Violating Asymmetry in the N to Delta Transition	N. Simicevic S. Wells*	LTU LTU		B+
E-01-116	C	The G0 Experiment:: Backward Angle Measurements	D. Beck	U of Illinois	60	A
E-02-101	A	Exclusive Study of Deuteron Electrodissintegration near Threshold	W. Bertozzi B. Norum T. Tamae K. Wang*	MIT U of Virginia Tohoku U U of Virginia	16	B+
E-03-011	A	Update of E00003: Neutron Skin of $^{208}\text{Pb}$ through Parity Violating Electron Scattering	P. Souder G. Urciuoli	Syracuse U INFN	30	A-
E-03-109	C	Spin Asymmetries on the Nucleon Experiment (SANE)	S. Choi Z. E. Meziani O. Rondon-Aramayo	Temple U Temple U U of Virginia	27	A-
E-04-114	A	A measurement of the flavor asymmetry through charged meson production in semi-inclusive deep-inelastic scattering	X. Jiang J. c. Peng L. Zhu	Rutgers U U of Illinois MIT		

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# Jefferson Lab Experiments, PACs 4-26, Grouped By Category

## Withdrawn

<u>Experiment</u>	<u>Hall</u>	<u>Title</u>	<u>Spokesperson</u>	<u>Institutions</u>	<u>Beam days</u>	<u>Rating</u>
PR-89-046	A	Study of Quasi-Particle Orbits in Closed Shell Nuclei with (e,e'p)	B. Frois* L. Lapikas J. Mougey C. Papanicolas	SACLAY NIKHEF ISN		
PR-91-006	A	Study of Nuclear Medium Effects by Recoil Polarization up to High Momentum Transfers	A. Saha	JLab	8	C
PR-93-016	C	Measurement of the Spin-Dependent Asymmetry in Quasielastic Electron Scattering from Polarized Tritium	C. Jones* R. Whitney	CIT JLab		
PR-93-024	A	Measurement of the Magnetic Form Factor of the Neutron at Large Momentum Transfers	J. Gomez G. Petratos*	JLab Kent State U	10	B+
PR-93-028	C	Deformation of the Nucleon (DROPPED 1/99)	J. Jourdan	U of Basel	15	B
★ PR-94-003	B	Study of the $\Delta(1232)$ Using Double Polarization Asymmetries	R. Minehart P. Stoler*	U of Virginia RPI		
PR-94-011	A	A Study of Off-Shell Effects in Electromagnetic Reactions	H. Bulten	U of Wisconsin		
PR-94-013	C	A Measurement of $t_{11}$ in Elastic e-D Scattering (DROPPED 1/99)	J. Mitchell	JLab		
PR-94-021	A	The Electric Form Factor of the Neutron Extracted from the $^3\text{He}(e,e'n)\text{pp}$ Reaction	W. Korsch* R. McKeown	U of Kentucky CIT	14	
PR-94-106	A	Nucleon Structure Study by Virtual Compton Scattering at High Momentum Transfer	V. Breton* C. Hyde-Wright	UCF ODU		
PR-94-121	B	Exotic Meson Spectroscopy with CLAS	G. Adams* J. Napolitano	RPI RPI		
PR-96-001	A	Recoil Polarization in $\eta$ Electroproduction	W. Bertozzi J. Kelly* A. Sarty	MIT U of Maryland St. Marys	26	B+
PR-97-009	A	Measurement of $F_{\gamma^*\gamma\pi^0}$ at low $Q^2$ via the Virtual Primakoff Effect	D. Dale* A. Gasparian	U of Kentucky NCAT State U		
PR-97-011	A	Initial Exploration of Semi-exclusive Scattering in $x > 1$ Region with $^3\text{He}(e,e'p)$ Reactions	W. Bertozzi* S. Gilad J. Zhao	MIT MIT MIT	13	B

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PR-97-102	C	Measurement of the (e,e'p) Cross Section on Tensor Polarized Deuterium	H. Anklin* W. Boeglin	FIU FIU	33	A-
PR-97-104	C	Measurement of the Parity Violating Asymmetry in the N to $\Delta$ Transition	N. Simicevic* S. Wells*	LTU LTU		B+
PR-00-103	A	Deuteron Electrodisintegration at Threshold at Large Momentum Transfers	J. Jourdan* G. Warren	U of Basel JLab		
PR-00-106	A	Measurement of Small Componets of the $^3\text{He}$ Wave Function Using $^3\text{He}(e,e'p)$ in Hall A	F. Hersman	U of NH		
PR-00-107	A	Proton Polarization in Deuteron Photodisintegration to $E_\gamma > 3 \text{ GEV}$ at $\theta_{\text{cm}}=90^\circ$	R. Gilman* R. Holt Z. E. Meziani	Rutgers U ANL Temple U	11	A-
PR-01-003	A	Update to E-91-004: Measurement of Strange Quark Effects Using Parity Violating Elastic Electron Scattering from $^4\text{He}$ at $Q^2=0.6 \text{ (GeV/c)}^2$	E. Beise	U of Maryland		

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PR-89-005	AC	Replaced by E-93-38 The Electric Form Factor of the Neutron from the d(e,e'n)p Reaction	R. Madey	Hampton U		
PR-89-014	A	Replaced by pr-93-027; Electric Form Factor of the Proton by Recoil Polarization	C. Perdrisat* V. Punjabi	W&M NSU		
PR-89-018	AC	Replaced by pr-93-026; An Experiment to Measure the Charge Form Factor of the Neutron	D. Day	U of Virginia		
PR-89-021	A	Elastic Electron $^3\text{He}$ - $^4\text{He}$ Scattering at Large Momentum Transfers	G. Petratos	Kent State U	30	B
PR-89-023	C	Measurements of Parity Violation in Elastic e,p Scattering	R. Carlini	JLab		
PR-89-047	A	Deuteron Electrodissintegration at Threshold at Large Momentum Transfers	J. Jourdan* J. Mougey G. Petratos	U of Basel ISN Kent State U		
☆ PR-91-004	A	Measurement of Strange Quark Effects using Parity-Violating Elastic Scattering From $^4\text{He}$ at $Q^2=0.6\text{GeV}^2$	E. Beise	U of Maryland	85	A
PR-91-007	C	Measurement of the Nuclear Dependence and Momentum Transfer Dependence of Quasielastic (e,e'p) Scattering at Large Momentum Transfer (Resubmittal of PR-89-010)	R. Milner	MIT	5	B-
PR-91-009	B	Multihadron (Update on CEBAF Proposals PR-89-015, -017, -027, -031, -032, and -036)	F. Hersman	U of NH	33	
PR-91-015	B	Helicity Structure of Pion Photoproduction	D. Sober	CUA	18	A-
PR-91-020	B	Experiments with a polarized $^3\text{He}$ target and the CEBAF Large Acceptance Spectrometer	R. McKeown	CIT		
PR-91-022	C	replaced by pr-93-18; Measurement of the Kaon Form Factor for $1.0\text{ GeV}^2/c^2 \leq Q^2 \leq 2.0\text{ GeV}^2/c^2$	O. Baker	JLab		
PR-93-021E	C	The Charged Pion Form Factor Extension	H. Blok G. Huber	Vrije U U of Regina	13	B+
PR-93-043	B	Measurement of the Delta-Delta Component of the Deuteron by Exclusive Quasielastic Electron Scattering	B. Quinn	CMU	48	B
PR-91-017	C	Measurement of the Flavor Singlet Charge Form Factor of the Proton $G_E^0$	D. Beck	U of Illinois	46	A

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PR-94-002	B	Photoproduction of Vector Mesons off Nuclei	P. Bertin M. Kossov* B. Freedom	UCF ITEP USCA	12	B+
PR-94-023	A	Measurement of Small Components of the $^3\text{He}$ wave function using $^3\text{He}$ (e,e'p) in Hall A	F. Hersman	U of NH	24	B+
PR-94-101	A	Precision Measurement of the Neutron Asymmetry $A_n^1$ at Large $X_{Bj}$ using CEBAF at 6 GeV	Z. E. Meziani* P. Souder	Temple U Syracuse U	21	B
PR-94-108	A	Electroproduction of Kaons up to $Q^2=3$ (GeV/c) $^2$	O. Baker C. Chang S. Frullani M. Iodice P. Markowitz*	JLab U of Maryland INFN INFN FIU		
PR-94-110E	C	Measurement of $R=\text{SigmaL}/\text{SigmaT}$ in the Nucleon Resonance Region Extension	C. Keppel	Hampton U	18	B+
PR-94-117	B	Helicity Structure of Pion Photoproduction on Polarized Deuteron and the GDH Sum Rule for the Neutron	J. P. Chen S. Gilad Z. Li* C. Whisnant	JLab MIT CNU USCA		A-
PR-94-118	B	Search for $J^{PC} = 1^{-+}$ Exotic Mesons in the Electroproduction Reactions using CLAS Detector at CEBAF	I. Aznauryan H. Funsten	Yerevan W&M		
PR-95-002	C	Direct Measurement of the Lifetime of Heavy Nuclei at CEBAF	L. Tang	Hampton U		
PR-96-002	C	Precision Measurement of the Nucleon Spin Structure Functions in the Region of the Nuclear Resonances	O. Rondon-Aramayo	U of Virginia	21	B
PR-97-005	B	Photoproduction of $\phi$ Mesons with Linearly Polarized Photons	D. Tedeschi	USC		
PR-97-007	C	Polarization Transfer in Kaon Electroproduction	O. Baker	JLab		
PR-97-008	C	Spectroscopic study of a $\Lambda$ hypernuclei beyond the $p$ -shell region through the (e,e'K $^+$ ) reaction	O. Hashimoto L. Tang	Tohoku U Hampton U	15	B
PR-97-010	C	Measurement of Hydrogen and Deuterium inclusive resonance cross sections at intermediate $Q^2$ for Parton-Hadron duality studies	C. Keppel	Hampton U	3	B+
PR-97-101	C	Baryon Resonance Electroproduction at High Momentum Transfer	V. Frolov J. Price P. Stoler*	RPI U of California RPI	25	B+

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PR-97-106	A	Studying the Internal Small Distance Structure of Nuclei via the Triple Coincidence (e,ep+N) Measurement	W. Bertozzi E. Piasetzky J. Watson S. Wood*	MIT U of Tel Aviv Kent State U JLab	11	B+
PR-97-108	A	Exclusive Compton Scattering on the Proton	C. Hyde-Wright A. Nathan B. Wojtsekhowski*	ODU U of Illinois JLab	10	B+
PR-98-101	C	Spin Polarization in Kaon Electroproduction	O. Baker P. Gueye*	JLab Hampton U	16	B+
PR-98-107	B	Deeply Virtual Electroproduction of Vector Mesons	M. Guidal* C. Marchand E. Smith	IPN ORSAY SACLAY JLab		B+
PR-99-003	C	Direct Measurement of the Lifetime of the Heavy Hypernuclei at CEBAF (update to 95-002)	A. Margaryan L. Tang*	Yerevan Hampton U	7	B
PR-99-014	B	A Precision Measurement of the Neutral Pion Lifetime via the Primakoff Effect	D. Dale S. Danagoulian A. Gasparian* R. Miskimen	U of Kentucky NCAT State U NCAT State U U Mass	22	A-
PR-99-015	C	Inclusive Scattering from Nuclei at $x > 1$ and High $Q^2$ with a 6 GeV Beam	D. Day B. Filippone A. Lung*	U of Virginia CIT JLab	25	B-
PR-99-016	C	G0 Experiment	D. Beck	U of Illinois	46	A
PR-00-003	A	A Clean Measurement of the Neutron Skin of $^{208}\text{Pb}$ Through Parity Violating Electron Scattering	P. Souder G. Urciuoli	Syracuse U INFN	30	A-
PR-00-118	A	Elastic Electron Scattering off $^3\text{He}$ and $^4\text{He}$ at Large Momentum Transfers	J. Gomez G. Petratos*	JLab Kent State U	30	A-
PR-01-014	A	Precision Measurement of Electroproduction of $\pi^0$ near Threshold: A Test of Chiral QCD Dynamics	J. Annand D. Higinbotham R. Lindgren* V. Nelyubin	Glasgow U JLab U of Virginia U of Virginia	16	B+

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<u>Experiment</u>	<u>Hall</u>	<u>Title</u>	<u>Spokesperson</u>	<u>Institutions</u>	<u>Beam days</u>	<u>Rating</u>
PR-01-016	A	Precision Measurement of Longitudinal and Transverse Response Functions of Quasi-Elastic Electron Scattering in the Momentum Transfer Range $0.55 \text{ GeV}/c <  q $	J. P. Chen S. Choi* Z. E. Meziani	JLab Temple U Temple U	26	A-
PR-02-021	A	Measurement of $A_x$ and $A_z$ Asymmetries in the Quasi-Elastic $\text{vec}[^3\text{He}] (\text{vec}[e], e'd)$ Reaction	W. Bertozzi D. Higinbotham B. Norum S. Sirca Z. Zhou*	MIT JLab U of Virginia MIT MIT		

★ Completed Experiment ☆ Partially Completed ★ Original experiment partially completed but considered complete by the Collaboration as the major goals were achieved (no additional running planned) ☆ Partially complete (continuation halted by PAC during a jeopardy review)

\*Contact Person for Experiments with Multiple Spokespersons